

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for determining lymphocyte diversity in a subject, said method comprising
 - a) providing labeled RNA ~~nucleic acid~~ molecules from a population of said subject's lymphocytes, wherein each said labeled RNA ~~nucleic acid~~ molecule encodes a lymphocyte receptor or a portion thereof;
 - b) hybridizing said labeled RNA ~~nucleic acid~~ molecules or fragments of said labeled RNA ~~nucleic acid~~ molecules with a population of random nucleic acid molecules; and
 - c) determining lymphocyte diversity of said subject by assessing hybridization of said labeled RNA ~~nucleic acid~~ molecules with said population of random nucleic acid molecules.
2. (Original) The method of claim 1, wherein said random nucleic acid molecules within said population are attached to a solid substrate.
3. (Original) The method of claim 2, wherein said solid substrate is a multiwell plate or membrane, a glass slide, a chip, or a bead.
4. (Original) The method of claim 2, wherein said solid substrate is a bead.
5. (Original) The method of claim 4, wherein hybridization is assessed by flow cytometry.

6. (Original) The method of claim 2, wherein said solid substrate comprises a plurality of discrete regions, wherein each of said discrete regions comprises a different random nucleic acid molecule.

7. (Currently Amended) The method of claim 1, wherein said labeled RNA ~~nucleic acid~~ molecules are labeled with a fluorochrome.

8. (Original) The method of claim 7, wherein said fluorochrome is fluorescein isothiocyanate (FITC), phycoerythrin (PE), allophycocyanin (APC), or peridinin chlorophyll protein (PerCP).

9. (Withdrawn; Currently Amended) The method of claim 1, wherein said labeled RNA ~~nucleic acid~~ molecules are labeled with biotin.

10. (Withdrawn; Currently Amended) The method of claim 1, wherein said labeled RNA ~~nucleic acid~~ molecules are labeled with an enzyme.

11-12. (Cancelled)

13. (Original) The method of claim 1, wherein said population of lymphocytes are T lymphocytes.

14. (Currently Amended) The method of claim 13, wherein said labeled RNA ~~nucleic acid~~ molecules encode a variable region from a T cell receptor.

15. (Currently Amended) The method of claim 13, wherein said labeled RNA ~~nucleic acid~~ molecules encode a complementarity determining region (CDR) 3 β chain polypeptide.

16. (Withdrawn) The method of claim 1, wherein said population of lymphocytes are B lymphocytes.

17. (Withdrawn; Currently Amended) The method of claim 16, wherein said labeled RNA ~~nucleic acid~~ molecules encode a variable region from a heavy chain or a light chain.

18-50. (Cancelled)